INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32054

A. CLASSIFICATION OF SUBJECT MATTER				
PC(7) : F25D 23/12; F25B 5/00, 41/04				
US CL : 62/259.2, 199, 223 According to International Patent Classification (IPC) or to both national classification and IPC				
According to International Praemt Classification (In C) of to see international Praemt Classification (In C) of to see international Praemt Classification (In C) of the see internation (In C) of the				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S. : 62/259.2, 199, 223, 200, 222, 504, 113, 513				
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
the state base and where practicable, search terms used)				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
EAST search	terms: thermal head, heater, heat exchanger, control va	ive		
	TO THE CONTRIDERED TO BE RELEVANT			
	DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.	
Category *	Citation of document, with indication, where appropriate, of the relevant passages		20	
O, Y, P	Y, P US 6,668,570 B2 (WALL et al) 30 December 2003 (30.12.2003), Figure 1.		i	
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Y, E	Y, E US 2004/0261439 A1 (WAYBURN et al), 30 December 2004 (30.12.2004), paragraph		1	
[0035], lines 12-15.				
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	of Day C	See patent family annex.		
Further	er documents are listed in the continuation of Box C.		emational filing date or priority	
* Special categories of cited documents. date an		"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the		
		principle or theory underlying the inv	principle or theory underlying the invention	
"A" docume	document defining the general state of the art which a second			
		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step		
"E" earlier s	application or patent published on or after the international filing date	when the document is taken alone	, ,	
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"L" document which may throw doubts on priority chamas) or which is close to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the considered to involve an inventive ste	claimed invention cannot be	
		with one or more other such documen	ts, such combination being	
"O" document referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art	·	
			family	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family				
priority	date claimed			
Date of the actual completion of the international search Date of mailing of the international search report				
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08 September 2005 (08.09.2005)		Authorized officer	/ () _	
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	No. (703) 305-3230			

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